

Bibliographic resources and research tools for Industrial Engineering

A presentation for PhD students

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Workshop materials





Workshop slides are available here:

http://biblioingegneriabernardi.cab.unipd.it/bibliocentrale/usa/laboratori/materiali/materiali

Bibliographic research steps





- Identify your topic and keywords
- Choose the proper tools (catalogues, databases...)
- Collect and evaluate useful documents (articles, papers, technical reports...)
- Create your bibliography using the correct citation style and citing the source

What are Bibliographic Databases?

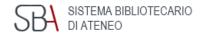




- A bibliographic database is a database of bibliographic records, an organized digital collection of references to published literature, including journal and newspaper articles, conference proceedings, reports, government and legal publications, patents, books, etc. In contrast to library catalogue entries, a large proportion of the bibliographic records in bibliographic databases describe articles, conference papers, etc., rather than complete monographs, and they generally contain very rich subject descriptions in the form of keywords, subject classification terms, or abstracts.
- A bibliographic database may be general in scope or cover a specific academic discipline.

Why use Bibliographic Databases?





- Bibliographic databases allow you to use keywords to search across thousands of different journal titles and conference proceedings at the same time for papers in a specific subject area.
- This saves you a lot of time as you do not have to search through individual publications.
- The papers have been through some form of "quality control" to ensure that the
 information is more reliable and valid than information you may find by searching the
 internet (better than Google search!).
- Bibliographic databases allow you to **create a structured search** by helping you to identify relevant keywords, to combine keywords together and to limit your search.
- Bibliographic databases give you the citation or reference details about the articles you have found so that you can **locate the full text**.
- Bibliographic databases usually provide links to the abstract or summary of the article so that you can evaluate the its relevance.
- If the University has an electronic subscription to the journal or conference proceedings, you will have online access to the full text of the paper.
- Bibliographic databases are regularly updated giving you access to the most current research.

(Engineering) Bibliographic Databases





<u>Web of Science</u> (Thompson Reuters bibliographic and citation database of peer-reviewed literature)

<u>Scopus</u> (Elsevier bibliographic and citation database of peer-reviewed literature)

Engineering Village (Compendex is the most comprehensive interdisciplinary engineering database in the world)

<u>IEEE Xplore</u> (full-text electrical engineering, computer science, and electronics bibliographic database)

<u>Business Source Complete</u> (bibliographic database about management, economics, finance, business...)

<u>Reaxys</u> (Reaxys is a web-based search and retrieval system for chemical compounds, bibliographic data and chemical reactions)

Web of Science

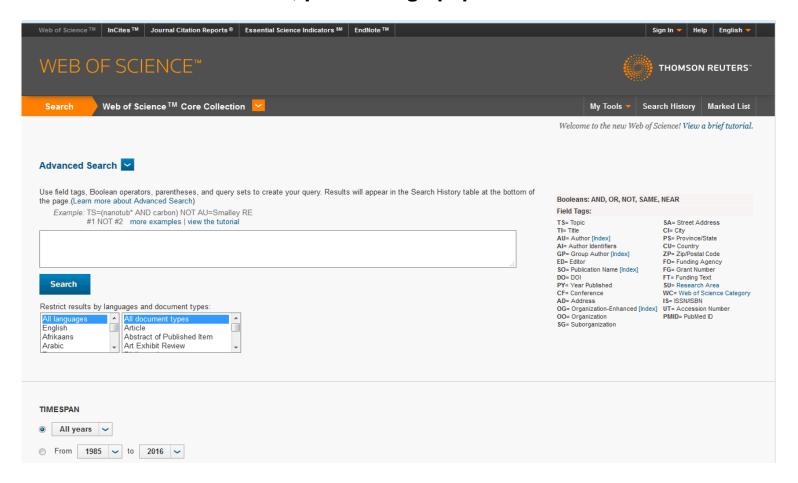




COVERAGE: multidisciplinary

TIME RANGE: 1985-

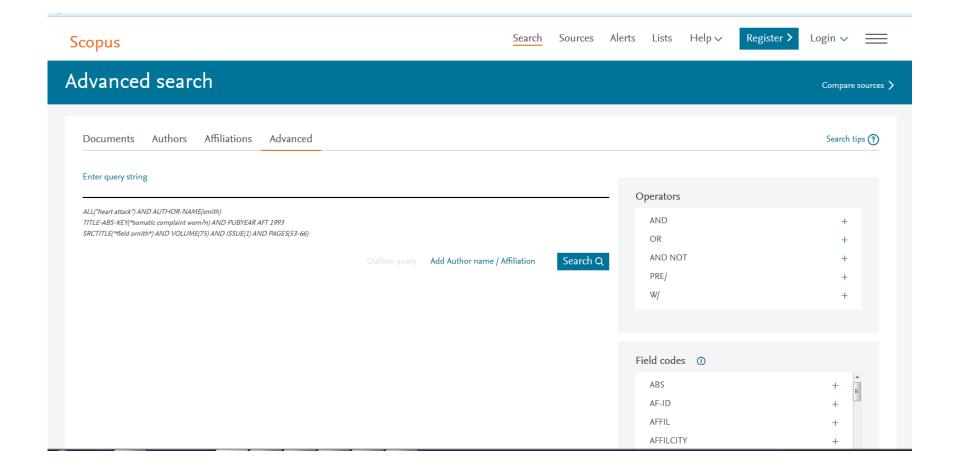
DOCUMENT TYPES: articles, proceedings papers



Scopus







Bibliometrics





BIBLIOMETRICS is a set of mathematical and statistical methods used to analyze and measure the quantity and quality of books, articles, and other forms of publications.

Bibliometrics

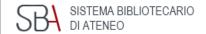
- identifies the best journals of a specific discipline
- defines the prestige of a specific journal
- determines the impact of published research

Bibliometrics evaluates:

- scientific journals
- single researchers
- research groups

Bibliometrics indicators





Bibliometric indicators are very important for researchers and organizations, as these measurements are often used in funding decisions and promotions of researchers. They are becoming increasingly important since published research results are read and then quoted by other researchers.

quantity indicators: measure the productivity of a particular researcher (Impact Factor; SNIP, SCImago) quality indicators: measure the quality or performance of a researcher's output; corresponds to the so called "peer-review": a review by colleague-scientists (h-index)

Impact factor





The **impact factor (IF)** is a measure of the frequency with which the average article in a journal has been cited in a particular year. It is used to measure the importance or rank of a journal by calculating the times its articles are cited.

How Impact Factor is Calculated?

The calculation is based on a two-year period and involves dividing the number of times articles were cited by the number of articles that are citable.

The Impact Factor is used to compare different journals within a specific disciplinary field.

The <u>Journal of Citation Report</u> indexes more than 11,000 science and social science journals.

It is important to note that Impact Factor is a journal metric and should not be used to assess individual researchers or institutions.

H-Index



The **h-index** quantifies an individual's scientific research output. (by J.E. Hirsch)

The *h*-index evaluates an author impact inside a specific scientific community on the basis of the number of his/her publications and citations obtained.

The *h*-index is one of the most important function in **Scopus**

SCImago Journal Ranking





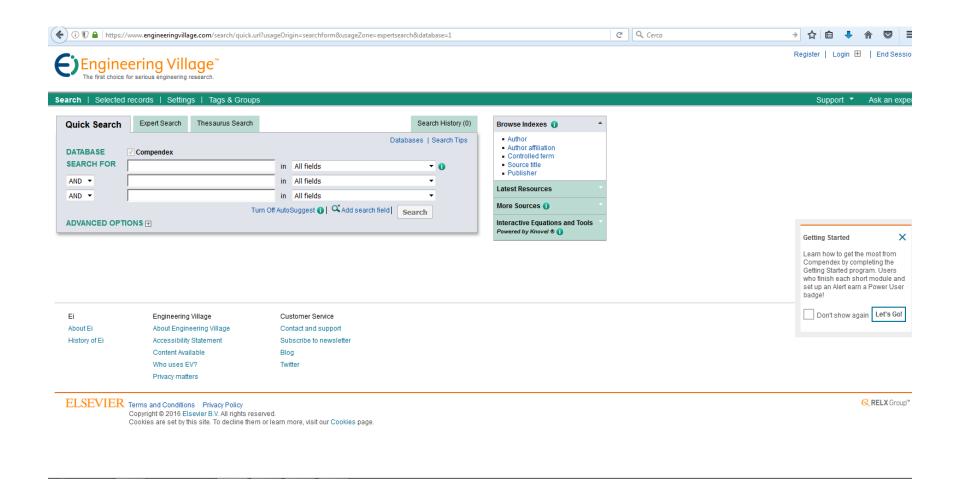
SCImago is a database that can be accessed for free online, which allows you to obtain statistics on the citations of articles published in peer-reviewed journals. It provides statistics and compares the number of published articles and citations in each country.

Journal ranking Country rankings

Engineering Village



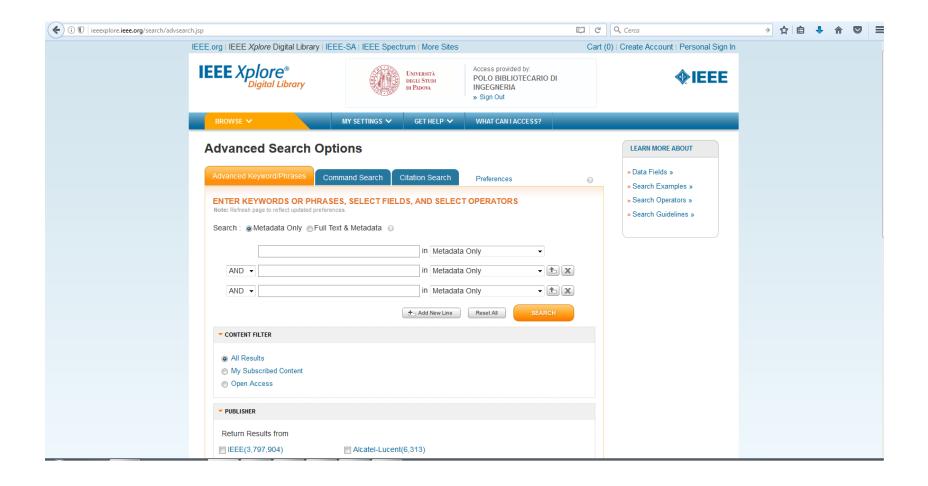




IEEE



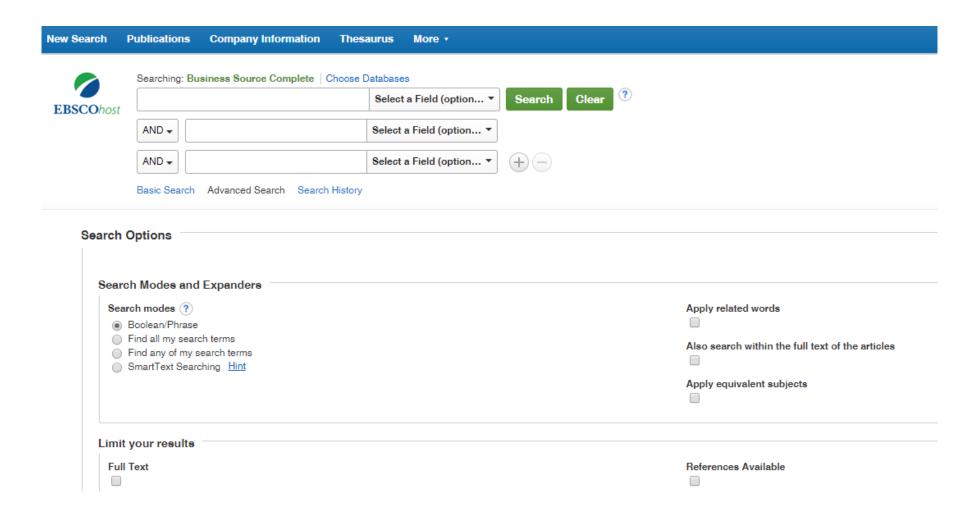








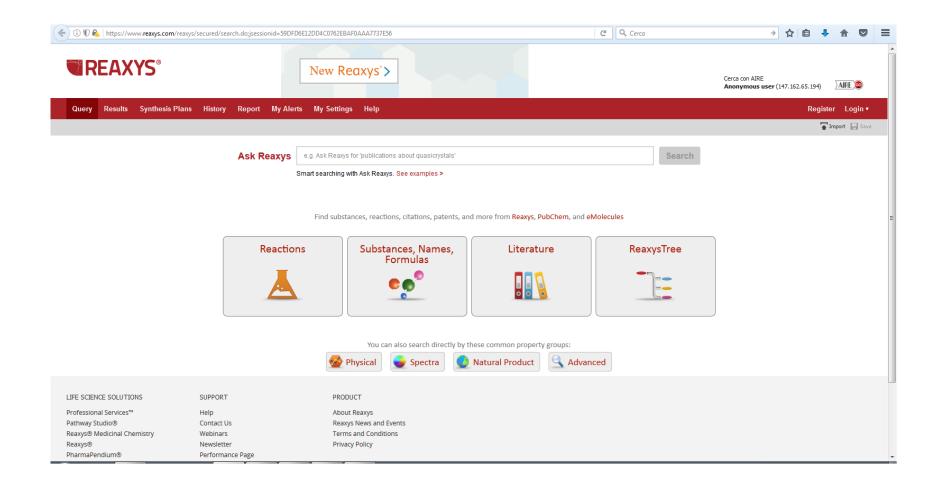




Reaxys

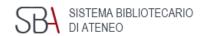






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- If you want to publish the output of your research, the first step you take is the submission of your "manuscript" to the editor of a chosen journal.
- The manuscript can be rejected outright or be sent to reviewers.
- Reviewers evaluate the manuscript and may ask the author to apply amendments.
- In the end, if the manuscript is accepted it is published in a journal as a peer-reviewed article.

Intellectual property in scientific communication





- IP rights (Industrial Property): patents, industrial design rights, trademarks, plant variety rights, trade dress, and in some jurisdictions trade secrets.
- Copyright: gives the creator of an original work exclusive rights to it. Usually, for a limited time.
 Economic rights allow the rights owner to derive financial reward from the use of his works by others
 Moral rights allow the author to take certain actions to preserve the personal link between himself and the work

Who retains these rights:

- authors
- publishers (when author tranfers them to a third party)

Copyright applies to theses and dissertations, as well.

Contracts with publishers





"Scholarly journals publishers have traditionally required authors to sign over all of the rights when their article is ready for publication".

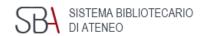
When a paper is accepted for publication, usually the author signes over copyright to the publisher of the journal in which his/her article appears (moral rights, being personal to the author, can never be transferred).

Authors need to be aware of current intellectual property and copyright laws if they want reuse their works after publication. Some publishers allow free access to articles in open archives, others allow access only under certain conditions, and still others don't allow free access at all.

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- OA refers to the free and open availability of scholarly content in the Internet, OA materials are available via:
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Open access (OA)





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- Gold road = Traditional publishers who publish both traditionally subscription-based journals and open access journals.
- Open access publishers (some are subsidized, some require payment from authors' or authors' institutions/employers)

http://www.livingreviews.org/open-access.html

Open access (OA)





- «OA can benefit everyone, not just academics»
- Researchers can read and build on the findings of others without restriction - accelerated discovery
- The outcomes of public funded scientific and medical research are available to taxpayers to see the results of their investment public enrichment
- Teachers and their students have access to the latest research findings throughout the world - improved education

https://www.plos.org/open-access/

Open access journals





- There are full open access journals.
- Hybrid open access journals where only some of the content is open access.
- Delayed open access journals where the content is made open access after a delay (e.g. 12 or 24 months).

Predatory publishers

https://beallslist.weebly.com/





Beall's List is a regularly-updated report by Jeffrey Beall, about what he named "predatory publications".

Scholarly Open Access Critical analysis of scholarly open-access publishing (Beall's List or Publishers)

Beyond Beall's List
Better understanding predatory publishers
Monica Berger and Jill Cirasella
http://crln.acrl.org/index.php/crlnews/article/view/9277/10341

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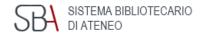


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Research funders, such as Universities or grant agencies, may adopt policies requiring their funded researchers to deposit their research output in open access repositories.

Mandates







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The Registry of Open Access Repository Mandates and Policies (ROARMAP) is a searchable international registry charting the growth of open access mandates and policies adopted by universities, research institutions and research funders that require or request their researchers to provide open access to their peer-reviewed research article output by depositing it in an open access repository.

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http://bibliotecadigitale.cab.unipd.it/en/open-archives

Digital repositories at Padova University





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Cerca



Ricerca:

- > semplice
- > avanzata
- > solo record con full text

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Anno Argomento

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Dottorato

Per le aziende

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Statistiche Ultimi inserimenti

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Benvenuti in Padua@research

Padua@research è l'archivio istituzionale per il deposito dei lavori di ricerca dell'Università degli studi di Padova. L'archivio ospita documenti in formato elettronico derivar docenti, ricercatori e collaboratori dell'Ateneo. Vengono depositate in Padua@research anche le tesi di dottorato.

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La procedura di autoarchiviazione rende visibile via web il testo completo dei documenti depositati. [Continua...]

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Accedi alla tua area



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IRIS Università degli Studi di Padova / Homepage



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Citations





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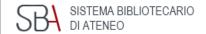
- give scientific credit to your work
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http://bibliotecadigitale.cab.unipd.it/en/about-publishing-new

Reference managers





You can:

- import, collect, organize and save references taken from bibliographic databases, books, web pages or other sources
- format bibliographies automatically in several referencing styles
- insert bibliographies and citations directly into a text
- share references with colleagues

Reference managers





A comparison chart between Mendeley, Zotero, Endnote basic

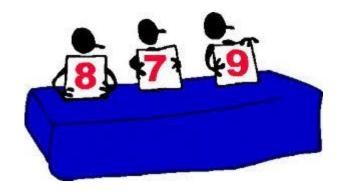
http://bibliotecadigitale.cab.unipd.it/en/refworks

Zotero	Endonote Basic	Mendeley
Web based	Web based	Web based
Free (up to 300 MB)	Free for Unipd users	Free (up to 2 GB)
It works offline		It works offline
downloading images and URL		
Data storage free up to 300 MB	Data storage free up to 2Gb	Data storage free up to 2Gb
Sharing bibliography	Sharing bibliography	Sharing bibliography
Import citation	Import citation	Import citation
Adding or modifying style citation	More common citation style	Adding or modifying style citation
Simplicity	Stability	Simplicity



Evaluation questionnaire

www.cab.unipd.it/corsi-sba-questionario

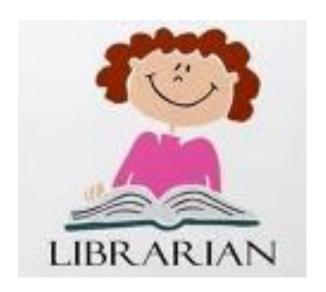


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